

WHAT IS CLAIMED IS:

- 1 1. A jig for inspecting a device provided with at least a radio frequency
2 signal terminal and an earth terminal, the jig comprising:
3 a metal block, formed with a through hole extending in a first
4 direction; and
5 a contact probe, inserted into the through hole, the contact probe
6 comprising:
7 a metal pipe, extending in the first direction;
8 a plunger, retractably projected from one longitudinal end of the
9 metal pipe to be brought into contact with the radio frequency signal terminal;
10 and
11 at least two dielectric ring members, provided on an outer periphery
12 of the metal pipe, and fitted with the through hole while forming a gap between
13 the outer periphery of the metal pipe and an inner wall of the through hole, in
14 order to form a coaxial path in which the contact probe serves as a core
15 conductor and the metal block serves as an external conductor,
16 wherein a diameter of the through hole and a diameter of the
17 dielectric ring members are selected such that the coaxial path has a
18 predetermined impedance relative to the radio signal frequency terminal.
- 1 2. The jig as set forth in claim 1, wherein a dimension in the first
2 direction of each of the dielectric ring members is sufficiently smaller than a
3 length of the metal pipe in the first direction.

1 3. The jig as set forth in claim 1, wherein the dielectric ring members are
2 comprised of a resin material and integrally molded with the metal pipe.

1 4. The jig as set forth in claim 1, further comprising a conductive rubber
2 sheet, in which metal filaments are arranged so as to extend in the first
3 direction, and on which the earth terminal of the device to be inspected is
4 brought into contact, so that the earth terminal and the metal block are
5 electrically connected via the metal filaments.

1 5. A contact probe, inserted into a through hole formed in a metal block
2 of a jig for inspecting a device provided with at least a radio frequency signal
3 terminal and an earth terminal, the contact probe comprising:

4 a metal pipe;

5 a plunger, retractably projected from one longitudinal end of the
6 metal pipe to be brought into contact with the radio frequency signal terminal;
7 and

8 at least two dielectric ring members, provided on an outer periphery
9 of the metal pipe, and fitted with the through hole while forming a gap between
10 the outer periphery of the metal pipe and an inner wall of the through hole, in
11 order to form a coaxial path in which the contact probe serves as a core
12 conductor and the metal block serves as an external conductor,

13 wherein a diameter of the dielectric ring members is selected such
14 that the coaxial path has a predetermined impedance relative to the radio
15 signal frequency terminal, based on a diameter of the through hole.